

What are Water Quality Standards?

- Defines water quality goals of a water body
- This is accomplished by:
 - Designating the use or uses to be made of the water (aquatic, recreational, etc.)
 - Setting criteria necessary to protect the uses
 - Preventing degradation of water quality

1/11/2007

What are designated uses?

40CFR131.3

"Designated uses are those uses specified in water quality standards for each water body or segment whether or not they are being attained."

lowa Designated Uses

Class A uses	Recreation	
Class B uses	Aquatic Life	
Class C use	Drinking Water Supply	

Class HH use Human Health

Class HQR/HQ use High Quality

1/11/2007

Iowa Aquatic Life Uses

Class B(WW1)	Large streams
B(WW2)	Small streams
B(WW3)	Intermittent w/pools
B(LW)	Lakes & wetlands
B(CW1)	Cold water streams
B(CW2)	Cold water headwaters
General Use	Intermittent/Ephemeral
	streams

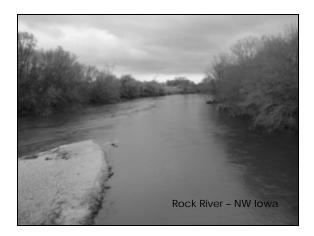
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Iowa Aquatic Life Uses

B(WW1)

"Waters in which temperature, flow and other *habitat* characteristics are suitable to *maintain* warm water *game fish populations* along with a *resident aquatic community* that includes a variety of native fish and invertebrate species. These waters generally include border rivers, *large interior* rivers, and the lower segments of medium-size tributary streams." 567 IAC 61.3(1)



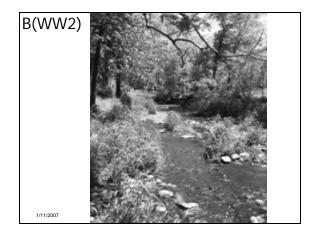


Iowa Aquatic Life Uses

Class B(WW2)

"Waters in which flow or other *physical* characteristics are capable of supporting a resident aquatic community that includes a variety of native non-game fish and invertebrate species. The flow and other physical characteristics *limit* the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams." 567 IAC 61.3(1)







Iowa Aquatic Life Uses

B(WW3)

B(WW3)
"Waters in which flow persists during periods when antecedent soil moisture and ground water discharge levels are adequate; however, aquatic habitat typically consists of non-flowing pools during dry periods of the year. These waters generally include small streams of marginally perennial aquatic habitat status. Such waters support a limited variety of native fish and invertebrate species that are adapted to survive in relatively harsh aquatic conditions." 567 IAC 61.3(1)









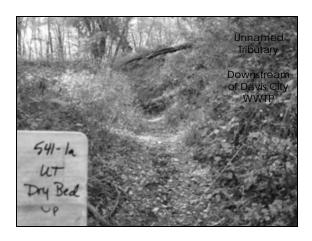
Iowa Aquatic Life Uses

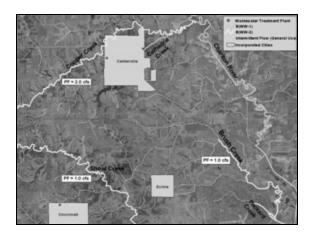
General Uses

"These are *intermittent* watercourses and those watercourses which typically flow only for short periods of time following precipitation and whose channels are *normally above the water table*. These waters *do not support* a viable aquatic community during low flow and do not maintain pooled conditions during periods of no flow."



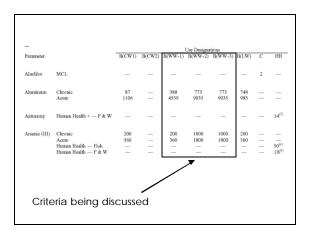






Brief History

- Old Aquatic Life Use Designations
 - B(WW) = Significant Resource Warm Water
 B(LR) = Limited Resource Warm Water
- WQS Rule Changes effective 3/22/06
 B(WW) changed to B(WW-1)
 B(LR) changed to B(WW-2)
- Numerical Criteria Changes effective 3/22/06
 B(WW) Criteria = B(WW-1) Criteria
 B(LR) Criteria = B(WW-2) & B(WW-3) Criteria
- EPA Approval Issues
 - Changes were name revisions and use clarification
 - EPA feels these are new designated uses
 - Urgent need for criteria review



The New WQS

- All non-designated perennial streams and intermittent streams with perennial pools will be designated as Class A1, B(WW-1) i.e. "fishable/swimmable"
- This is approximately 14,000 additional stream miles

(12,000 miles previously designated out of 26,000 miles of perennial streams)



